FEATURE 241
CROSSDRAINS

Roadway Side	Allows Tie	LRS Package	Feature Type	Interlocking	Secured
C/R/L	Yes	No	Point	Yes	Yes
Responsible Party for Data Collection	District Office of Maintenance				

Definition/Background: Describes box culverts with sum total of openings are less than 20 feet and crossdrains. Both are located across roadways for the purpose of draining excess water. If these characteristics are part of a storm sewer system, do not inventory them because they will be captured under Feature 242.

If the below characteristics are located at a rest area, ramp, or other applicable sub-section, they are to be inventoried against the applicable sub-section number.

COMPOSITE – ENTIRE LENGTH
From both ends of pipe.

CROSSDRAIN LEFT
From Inlet to end of pipe

CROSSDRAIN RIGHT
From Inlet to end of pipe

CROSSDRAIN = R
CROSSDRAIN = L
From Inlet to end of pipe.

CROSSDRAIN – RIGHT
Entire length.

They are normally inventoried using the center point of the right side for the milepoint data. Exceptions are when the crossdrains are on the left side only of a divided highway.
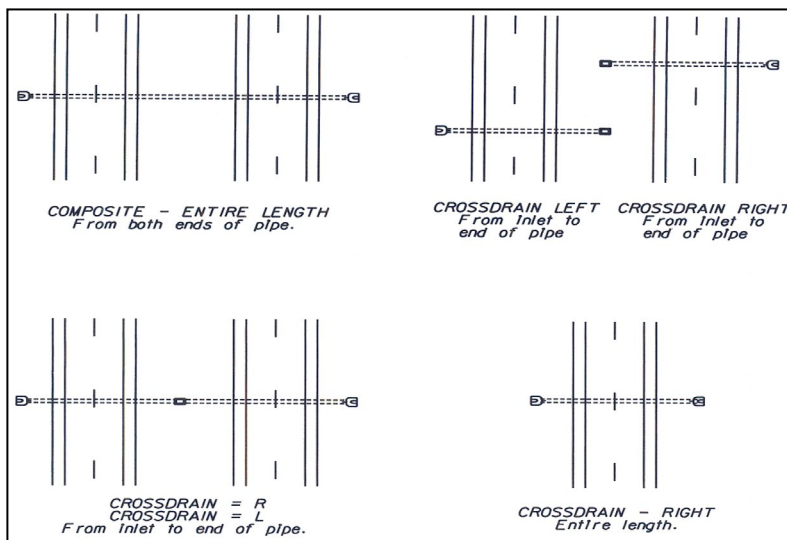
Offset Rules:

- **Code C**—When pipe is across the entire roadway.

- **Code R**—When pipe is across the right side of a divided highway only.

- **Code L**—When pipe is across the left side of a divided highway only.

- **Code R and code L**—Will be used when the crossdrain pipe is connected in the median by an inlet.

Culverts

BOXCULHT | BOX CULVERT HEIGHT

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Enter the box height to the nearest foot.

Value for Box Culvert Height: 3 Bytes: XX.X

Dimensional Accuracy: 1 foot

BOXCULLT | BOX CULVERT WIDTH

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Enter the box width to the nearest foot.

Value for Box Culvert Width: 3 Bytes: XX.X

Dimensional Accuracy: 1 foot

BXCULGTH | BOX CULVERT LENGTH

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Measure the box length, from outside headwall to outside headwall. Enter the box length to the nearest two feet.

Value for Box Culvert Length: 3 Bytes: XXX

Dimensional Accuracy: 2 feet

NOBXCULV | NUMBER OF BOX CULVERTS

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Enter the number of box culverts. Box culverts have a sum of openings less than 20 feet, such as one box culvert has three openings and each are 6' then 6'+6'+6' = 18'. If the sum total of the openings are greater than 20 feet then it is considered a bridge, it should have a bridge number assigned shown on the structure, and should be on the SLD. It is captured under Feature 258 Structures. Always check with the Bridge Department to be sure.

Value for Number of Box Culverts: 2 Bytes: XX

Single Cell	Multiple Cells

FDOT

Crossdrains

CRSDRLGH | LENGTH OF CROSSDRAIN PIPES

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Measure the crossdrain length, from outside headwall to outside headwall. Enter the length of the crossdrain to the nearest two feet.

Dimensional Accuracy: 2 feet

Value for Length of Crossdrain Pipes: 3 Bytes: XXX

NOCRDRAN | NUMBER OF CROSSDRAIN PIPES

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Enter the number of crossdrains.

Value for Number of Crossdrain Pipes: 2 Bytes: XX

EXAMPLES

Non-Circular

Circular

Pipes

PIPETYPE | TYPE OF PIPE

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Enter the type of material from which the pipe is constructed. Effective 2017.

Codes	Descriptions
01	Corrugated Metal
02	Concrete
03	Cast Iron
04	PVC (Effective April 2017)

PIPEDIAM | PIPE DIAMETER

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Enter the circular pipe diameter in inches.

Value for Pipe Diameter: 3 Bytes: XXX

PIPEHIGH | NON-CIRCULAR PIPE HEIGHT

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Enter the non-circular pipe height in inches.

Value for Non-Circular Pipe Height: 3 Bytes: XXX

PIPEWDTH | NON-CIRCULAR PIPE WIDTH

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
N/A	N/A	Maintenance	All Active On and Active Exclusive roads, including managed lanes.	N/A	N/A

How to Gather this Data: Enter the non-circular pipe width in inches.

Value for Non-Circular Pipe Width: 3 Bytes: XXX